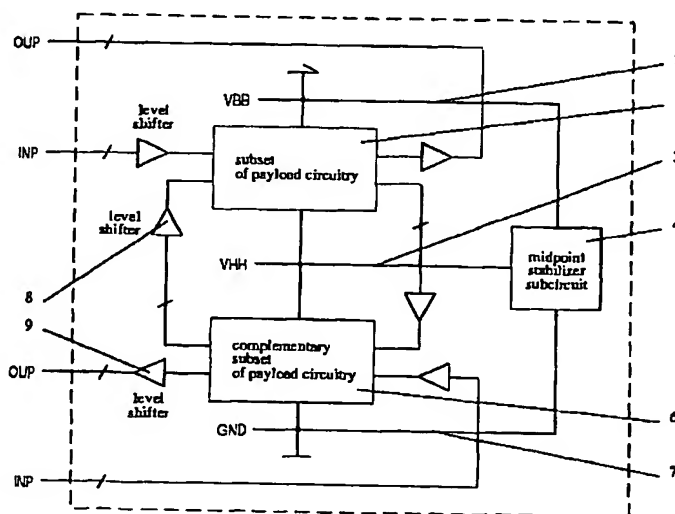


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(54) Title: LOW-VOLTAGE IC-CIRCUIT



**(57) Abstract:** The invention regards an IC-circuit construction where the circuit is partitioned into power consuming sub-circuits (1,6) and where ground voltage level (VHH) in the power supply of a first sub-circuit (1) is used as the supply voltage level in a second sub-circuit (6). According to the invention a voltage control circuit (4) comprises a first buffer capacitor (10) coupled in parallel over the supply voltage level (VBB) and ground voltage level (VHH) of the first sub-circuit (1) and a second buffer capacitor (11) coupled in parallel over the supply voltage level (VHH) and the ground voltage level (GND) of the second sub-circuit (6), whereby means for maintaining a uniform voltage drop over the first (10) and the second (11) buffer capacitor comprises at least one bucket capacitor (20,21,22) which is alternately coupled in parallel over the first (10) and the second (11) buffer capacitor through a switching system controlled by a toggling signal.

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H02J7/00 G05F3/02 H03L5/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02J G05F H03L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	US 6 121 751 A (MERRITT LAUREN V) 19 September 2000 (2000-09-19) figure 1  -----	1-3
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☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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11 November 2004

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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